



STIC Search Report

EIC 3700

STIC Database Tracking Number: 158052

TO: Glenn K Dawson
Location:
Art Unit: 3731
Friday, July 08, 2005

Case Serial Number: 09/438676

From: Ethel Leslie
Location: EIC 3700
RND 8A34
Phone: 571-272-5992

Ethel.leslie@uspto.gov

Search Notes

Glenn,

Attached is the completed search for the equine nasal dilator. I searched the inventors in the patent and non-patent literature and I have attached the results. I also did an extensive search on the requested topic in bibliographic and full-text databases. I could not find anything that met the specifications we discussed. I have attached the search strategies used for the searches performed.

If you have a moment, please fill out the attached STIC Feedback Form. If there is anything I can do to refine or revise this search, please let me know.

Sincerely,
Ethel Leslie

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Glenn K. Dawson Examiner #: 69769 Date: 6-30-05
 Art Unit: 3731 Phone Number 30571-271-4694 Serial Number: 09/438676
 Mail Box and Bldg/Room Location: R.R. 6C-81 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): Edward Black James Chiapetta

Earliest Priority Filing Date: 04-1996

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

See attached method claims.

606/20

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher:	<u>Glenn K. Dawson</u>	NA Sequence (#)	STN _____
Searcher Phone #:	<u>25992</u>	AA Sequence (#)	Dialog _____
Searcher Location:	<u>EIC 3700</u>	Structure (#)	Questel/Orbit _____
Date Searcher Picked Up:	<u>7/7/05</u>	Bibliographic	Dr. Link _____
Date Completed:	<u>7/8/05</u>	Litigation	Lexis/Nexis _____
Searcher Prep & Review Time:		Fulltext	Sequence Systems _____
Clerical Prep Time:		Patent Family	WWW/Internet _____
Online Time:		Other	Other (specify) _____

Set	Items	Description
S1	488946	HORSE? ? OR RACEHORSE? OR EQUINE? OR THOROUGHBRED? OR STANDARBRED? OR (THOROUGH OR STANDARD?) () (BRED? ?) OR DOG? ? OR - COW? ? OR CAMEL? ? OR GRAYHOUND? OR GREYHOUND? OR (GRAY OR GREY) () HOUND?
S2	2156280	VESTIBUL? (2N) WALL OR NOSTRIL? OR NASAL? OR NOSE? ? OR INCISIVE? () BONE? ? OR RHINAL? OR HEAD? ? OR MUZZLE? OR MAXILLA??? OR PREMAXILLA??? OR BRIDG???
S3	8460654	SUPPORT??? OR AID OR AIDS OR AIDING OR AIDING OR BRACE? ? - OR BRACING OR HOLD???
S4	11533057	DILAT??? OR OPEN??? OR WIDEN??? OR EXPAN???? OR ENLARG??? - OR LARGE?
S5	2100262	OUTSIDE? OR OUTMOST OR OUTWARD OR OUTER? OR EXTERIOR? OR EXTERNAL? OR SUPER()FICIAL? OR SUPER()FICIAL?
S6	4410822	PY=2004:2005
S7	5432987	PY=2002:2003
S8	6157465	PY=2000:2001
S9	4497233	PY=1998:1999
S10	1659976	PY=1997
S11	64	S1 (S) S2 (S) S3 (S) S4 (S) S5
S12	26	S11 NOT S6:S10
S13	25	RD (unique items)
S14	50746	S2 (5N) S4
S15	444	S14 (S) S1
S16	563	S2 (5N) S4 (5N) S5
S17	9	S16 (S) S1
S18	32430	S2 (3N) S4
S19	123	S18 (10N) S1
S20	41	S19 NOT S6:S10
S21	36	RD (unique items)
S22	503990	LUNG? ? OR PULMON? OR BREATH??? OR RESPIRAT??? OR VENTILAT- ??? OR INHAL????? OR EXHAL????? OR AIRFLOW? OR AIR()FLOW???
S23	24173	S22 (10N) S3
S24	52	S23 (S) S14
S25	32	S24 NOT S6:S10
S26	22	RD (unique items)
S27	3450	BREATH? ? ()RIGHT? ? OR CLEAR() PASSAGE OR POWER() STRIP? ?
S28	35	S27 (S) S1
S29	3	S28 NOT S6:S10
S30	452183	ANIMAL? ? OR MAMMAL? ?
S31	799	(S1 OR S30) (S) S14
S32	339	(S1 OR S30) (10N) S14
S33	27	S32 (S) S3
S34	15	S33 NOT S6:S10
S35	12	RD (unique items)
S36	8	WINEASE OR WIN() EASE
S37	0	S36 AND (S1 OR S30)
S38	35274	S2 (5N) S3
S39	769	S38 (S) S14
S40	616	S38 (10N) S14
S41	6	S40 (10N) (S1 OR S30)
S42	4	RD (unique items)
S43	44	FLAIR (2N) EQUINE (2N) NASAL
S44	0	S43 NOT S6:S10
S45	6560	S1 (5N) S2
S46	1	S45 (10N) S39
S47	165	S45 (10N) (S38 OR S14)
S48	10	S47 (10N) S22
S49	5	RD (unique items)
S50	2849	S30 (5N) S2
S51	106	S50 (10N) (S38 OR S14)

S52 2 S51 (10N) S22
S53 2 S52 NOT S48
? show files
File 9:Business & Industry(R) Jul/1994-2005/Jul 07
 (c) 2005 The Gale Group
File 16:Gale Group PROMT(R) 1990-2005/Jul 07
 (c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/Jul 08
 (c) 2005 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Jul 08
 (c) 2005 The Gale Group
File 47:Gale Group Magazine DB(TM) 1959-2005/Jul 08
 (c) 2005 The Gale group

42/9/2 (Item 2 from file: 16)
DIALOG(R) File 16:Gale Group PROMT(R)
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06697885 Supplier Number: 56012794 (THIS IS THE FULLTEXT)
CNS Expands Nasal Strip Technology to Include Horses; Company to Begin Sales in 4th Quarter.

PR Newswire, p0444

Oct 6, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 418

TEXT:

MINNEAPOLIS, Oct. 6 /PRNewswire/ -- CNS, Inc., (Nasdaq: CNXS) is developing a nasal strip that eases the breathing of horses during racing and other high-performance events, the company announced today. The strip performed as expected in an initial clinical trial at Kansas State University, and CNS plans to begin selling it during the fourth quarter of 1999.

According to the KSU test, the FLAIR(TM) equine nasal strip makes breathing easier for horses during strenuous exercise, such as racing or eventing, and can reduce exercise-induced pulmonary hemorrhage (EIPH), a common problem for horses. The company said it planned to conduct additional studies to more completely delineate the benefits of the product.

The patented, drug-free FLAIR strip, developed by two veterinarians, is attached over a horse's nasal passages, where it is held in place by a special adhesive. The strip's spring-like action **holds nasal** passages **open** to maximize air flow.

"**Horses** expend tremendous energy and effort simply to breathe during highly competitive events," said Daniel E. Cohen, chairman and chief executive officer of CNS. "Because the strip reduces the work of breathing, horses experience less physical stress during and after heavy exercise. The inventors of this device clearly have the welfare of the horse in mind."

"Development of the FLAIR equine nasal strip is part of our continued expansion of nasal strip technology and is consistent with the improved breathing benefit of Breathe Right(R) nasal strips," said Marti Morfitt, president and chief operating officer of CNS. She said the company expected that initial sales of the product would be through direct fulfillment and catalogs.

CNS, based in Minneapolis, designs, manufactures and markets consumer products, including the Breathe Right nasal strip. The Breathe Right strip improves breathing by reducing nasal airflow resistance. It can be effective for the temporary relief of nasal congestion due to colds and allergies, in eliminating or reducing snoring, and for the temporary relief of breathing difficulties due to a deviated nasal septum. The company also has entered into several agreements to develop and market certain new consumer products that are in various stages of evaluation and testing.

Some of the information contained in this news release is forward-looking and subject to certain business risks as described in the company's filings with the Securities and Exchange Commission, including its annual report as incorporated by reference in its 1998 Form 10-K.

For more information, contact Curt Swenson of Swenson NHB Investor Relations, 612-371-0000, for CNS, Inc., Daniel E. Cohen or David J. Byrd of CNS, Inc., 612-820-6696.

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PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: *CNS Inc. (Minneapolis, Minnesota)

GEOGRAPHIC NAMES: *1USA (United States)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

TICKER SYMBOLS: CNXS
SPECIAL FEATURES: COMPANY
?

Set	Items	Description
S1	231520	HORSE? OR RACEHORSE? OR EQUINE? OR THOROUGHBRED? OR STANDA-RDBRED? OR (THOROUGH OR STANDARD?) () (BRED? ?) OR MAMMAL? OR ANIMAL? OR DOG? ? OR COW? ? OR CAMEL? ? OR GR?YHOUND? OR (GRAY OR GREY) () HOUND?
S2	19672	EIPH OR BLEEDING OR AIPE OR EPISTAX? OR NOSEBLEED? OR NOSE-(N) BLEED??? OR COPD OR (SOFT() PALATE?) (4N) DISPLAC?
S3	1244234	EXERCISE? OR ACTIVIT??? OR MOVEMENT? OR EXERTI??? OR ATHLET? OR SPORT? OR ASPHYX?
S4	5690270	INDUCE? OR ACTIVAT? OR ACTUAT? OR CAUSE? ? OR CAUSING OR GENERAT? OR INFLUENC? OR PRODUCE? ? OR PRODUCING
S5	309719	LUNG? OR PULMON? OR BREATH? OR RESPIRAT??? OR VENTILAT??? - OR INHAL? OR EXHALE? OR AIRFLOW? OR AIR() FLOW???
S6	165556	H??MORRHAG? OR EDEMA? OR BLOOD?
S7	1516203	CONDITION? OR AILMENT? OR ILLNESS OR DISORDER OR INFIRMIT? OR MALAD??? OR SYNDROM? OR DISEASE? OR IMPED?
S8	1022599	VESTIBUL? (2N) WALL OR NOSTRIL? OR NASAL? OR NOSE? ? OR INCISIVE? () BONE? ? OR RHINAL? OR HEAD? ? OR MUZZLE? OR MAXILLA??? OR PREMAXILLA??? OR BRIDG???
S9	2929469	SUPPORT??? OR AID OR AIDS OR AIDING OR AIDING OR BRACE? ? - OR BRACING OR HOLD???
S10	3334464	DILAT??? OR OPEN??? OR WIDEN??? OR EXPAN???? OR ENLARG??? - OR LARGE?
S11	5022484	OUTSIDE? OR OUT OR OUTMOST OR OUTWARD OR OUTER? OR EXTERIOR? OR EXTERNAL? OR SUPERFICIAL? OR SUPER() FICIAL? OR OVER
S12	167724	HEMORRHAG? OR HAEMORRHAG? OR EDEMA? OR BLOOD?
S13	44	S3 (5N) S4 (5N) S5 (5N) S12
S14	27268	S5 (5N) S7
S15	45879	S2 OR S13 OR S14
S16	5163	S1 AND S15
S17	5627060	S9:S10
S18	90920	S11 (10N) S8
S19	12626	S17 (10N) S18
S20	3	S16 AND S19
S21	140	S1 AND S19
S22	88	S1 (S) S19
S23	59	S1 (10N) S19
S24	265537	IC=A61B?
S25	1	S23 AND S24
S26	3	S22 AND S24
S27	21	S13 AND S1
S28	3	S27 AND S11
S29	106	S3 (10N) S4 (10N) S5 (10N) S12
S30	45913	S29 OR S2 OR S14
S31	3037	S1 (S) S30
S32	817	S31 AND S9
S33	587631	S11 (10N) S9:S10
S34	19	S31 AND S33
S35	5173	S1 AND S30
S36	1	S25 AND S33
S37	38	S35 AND S33
S38	19	S37 NOT S34
S39	0	S S35 AND S18
S40	29	S35 AND S18
S41	26	S40 NOT S37
S42	39823	S8 (5N) S10
S43	9	S35 AND S42
S44	8	S43 NOT (S41 OR S37)
S45	1370	S1 AND (S2 OR S29)
S46	10	S45 AND S18
S47	0	S46 NOT (S44 OR S41 OR S37)

S48 91 S45 AND S9:S10 AND S8
S49 85 S48 NOT (S44 OR S41 OR S37)
S50 21 S49 AND S11
S51 114 S18/TI AND S1
S52 59 (S18 AND S1)/TI
S53 58 S52 NOT (S44 OR S41 OR S37 OR S50)
S54 68351 S9 (5N)S8
S55 101 (S1 AND S54)/TI
S56 97 S55 NOT (S52 OR S44 OR S41 OR S37 OR S50)
S57 1 S56 AND S30
S58 107 S1 AND S30 AND S8 AND S9 AND S11
S59 78 S58 NOT (S52 OR S44 OR S41 OR S37 OR S50)
S60 4 S59 AND S1/TI

? show files

File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200543

(c) 2005 Thomson Derwent

41/5/11 (Item 10 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015195883

WPI Acc No: 2003-256419/200325

XRAM Acc No: C03-066464

Composition and device for the treatment of exercise - induced pulmonary hemorrhage or ' bleeding ' that occurs in racing horses that are subjected to intense exercise

Patent Assignee: BRATTON C R (BRAT-I); TOBIN T (TOBI-I)

Inventor: BRATTON C R; TOBIN T

Number of Countries: 100 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200311344	A1	20030213	WO 2002US24588	A	20020801	200325 B
US 20040053938	A1	20040318	WO 2002US24588	A	20020801	200421
			US 2003466803	A	20030716	
AU 2002330522	A1	20030217	AU 2002330522	A	20020801	200452

Priority Applications (No Type Date): US 2001309389 P 20010801; US 2003466803 A 20030716

Patent Details:

Patent No	Kind	Lat Pg	Main IPC	Filing Notes
WO 200311344	A1	E	42 A61K-049/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

US 20040053938 A1 A61K-031/519

AU 2002330522 A1 A61K-049/00 Based on patent WO 200311344

Abstract (Basic): WO 200311344 A1

NOVELTY - Method of treatment of **exercise - induced pulmonary hemorrhage** (**EIPH**) in an **equine** , by administering a composition comprising sildenafil citrate (I) or one of its derivatives, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a device for removable attachment to the head of an **equine** that is adapted to provided inhalation therapy of a preselected agent to the subject **equine** , the device comprising:

(1) bilateral elongated delivery tubes, each tube having a proximal end, a distal end and a body there between defining a longitudinal axis, the bilateral tubes being positioned relative to one another such that the body each tube is parallel along the axis;

(2) an inhalator manifold with proximal and distal ends, the distal end of the inhalator manifold being in fluid connection with the proximal ends of the delivery tubes and in fluid communication with a remote drug supply means at the proximal end of the inhalator manifold; and

(3) attachment means for removable attachment of the device to the head of the **equine** such that the longitudinal axis of each delivery tube is held in a preselected position that is parallel to the bridge of the nose of the subject **equine** 's forehead with the distal ends of the bilateral elongated delivery tubes held adjacent the **external** openings of the **nostrils** of **equine** .

ACTIVITY - Hemostatic. No biological data given.

MECHANISM OF ACTION - Phosphodiesterase Inhibitor.

USE - (I) is used for the treatment of **EIPH** or 'bleeding' that occurs in racing **horses** that are subjected to intense exercise.

ADVANTAGE - The device of the invention allows for the uninterrupted administration of a therapeutic regimen in such a manner that the **equine** is able to maintain mobility during therapy.

pp; 42 DwgNo 0/9

Title Terms: COMPOSITION; DEVICE; TREAT; EXERCISE; INDUCE; PULMONARY; HAEMORRHAGE; BLEED; OCCUR; RACE; **HORSE**; SUBJECT; INTENSE; EXERCISE

Derwent Class: B05; C03

International Patent Class (Main): A61K-031/519; A61K-049/00

File Segment: CPI

41/5/21 (Item 20 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014367790 **Image available**

WPI Acc No: 2002-188492/200224

XRAM Acc No: C02-058235

XRPX Acc No: N02-142917

Drug delivery device for treating pulmonary disease in mammals such as horse, comprises cup-shaped body for enclosing one external nare

Patent Assignee: UNIV TUFTS (TUFT)

Inventor: HOFFMAN A M

Number of Countries: 095 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200205630	A2	20020124	WO 2001US21898	A	20010712	200224 B
AU 200173376	A	20020130	AU 200173376	A	20010712	200236

Priority Applications (No Type Date): US 2000616483 A 20000714

Patent Details:

Patent No	Kind	La n Pg	Main IPC	Filing Notes
WO 200205630	A2	E	18	A01K-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW
AU 200173376 A A01K-000/00 Based on patent WO 200205630

Abstract (Basic): WO 200205630 A2

NOVELTY - A drug delivery device for a **mammal** comprises a cup-shaped body (10) for enclosing one **external nare**. The device does not extend into the **nostril** of the **mammal**.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for preventing or treating a **respiratory condition** of a **mammal** comprising contacting one nare of the **mammal** with the device and delivering a dose of the composition through the device in a single inhaled breath of the **mammal**.

USE - For administering **inhaled** drugs to treat **pulmonary disease**, e.g. exercise intolerance, cough, and asthma-like attacks in **horses** and in other **animals**, e.g. **cow**, **sheep**, or **goat**.

ADVANTAGE - The device is compact, practical, and well-tolerated by **animals**. It does not require insertion in the nose of the **animal** to be treated. It does not enclose a second external nare of the **animal**, thus allowing the **animal** to inhale and/or exhale from the nare which is not covered by the device. It does not enclose the mouth of the

animal and covers only a small portion of the animal 's face, thus improving the animal 's tolerance of the device.

Comfort of the animal is enhanced by a flexible interface on the cup-shaped body. The device is easily cleaned since it does not have hard-to-reach parts. It provides versatility of delivery positions through its angled interface, thus permitting safer handling of animals to be treated.

The simplicity of the design allows the device to be made less expensively. The holding chamber and low-resistance valve features allow smaller flows to remove drug particles from the chamber.

DESCRIPTION OF DRAWING(S) - The figure is a diagram of a drug delivery device with a spacer holding chamber.

Interface (3)
Valve (4)
Lumen (7)
Container (8)
Cup-shaped body (10)
pp; 18 DwgNo 1/6

Title Terms: DRUG; DELIVER; DEVICE; TREAT; PULMONARY; DISEASE; **MAMMAL** ;
HORSE ; COMPRISE; CUP; SHAPE; BODY; ENCLOSE; ONE; EXTERNAL

Derwent Class: B07; C07; P14

International Patent Class (Main): A01K-000/00

File Segment: CPI; EngPI

?

Set	Items	Description
S1	1427834	HORSE? ? OR RACEHORSE? OR EQUINE? OR THOROUGHBRED? OR STANDARDBRED? OR (THOROUGH OR STANDARD?) () (BRED? ?) OR DOG? ? OR - COW? ? OR CAMEL? ? OR GRAYHOUND? OR GREYHOUND? OR (GRAY OR GREY) () HOUND?
S2	1576023	VESTIBUL? (2N) WALL OR NOSTRIL? OR NASAL? OR NOSE? ? OR INCISIVE? () BONE? ? OR RHINAL? OR HEAD? ? OR MUZZLE? OR MAXILLA??? OR PREMAXILLA??? OR BRIDG???
S3	8146617	SUPPORT??? OR AID OR AIDS OR AIDING OR AIDING OR BRACE? ? - OR BRACING OR HOLD???
S4	6822473	DILAT??? OR OPEN??? OR WIDEN??? OR EXPAN???? OR ENLARG??? - OR LARGE?
S5	1816752	OUTSIDE? OR OUTMOST OR OUTWARD OR OUTER? OR EXTERIOR? OR EXTERNAL? OR SUPERFICIAL? OR SUPER()FICIAL?
S6	4807129	PY=2004:2005
S7	7053260	PY=2002:2003
S8	6756718	PY=2000:2001
S9	6910304	PY=1998:1999
S10	3462693	PY=1997
S11	93	S1 AND S2 AND S3 AND S4 AND S5
S12	60	S11 NOT S6:S10
S13	46	RD (unique items)
S14	13696	S2(5N)S3
S15	206	S14 AND S1
S16	121	S15 NOT S6:S10
S17	120	S16 NOT S12
S18	66	RD (unique items)
S19	8	S18 AND S4
S20	31256	S4(5N)S2
S21	553	S14 AND S20
S22	8	S21 AND S1
S23	6	S22 NOT S19
S24	3	RD (unique items)
S25	1479	S2(10N)S3(10N)S4
S26	20	S25 AND S1
S27	12	S26 NOT (S19 OR S23 OR S12)
S28	7	RD (unique items)
S29	384320	EIPH OR BLEEDING OR AIPE OR EPISTAX? OR NOSEBLEED? OR NOSE-(N)BLEED??? OR COPD OR (SOFT()PALATE?) (4N)DISPLAC? OR ((EXERCIS??? OR ASPHYX?) (3N)INDUC??? (3N)PULMON? (3N)(HEMORRHAG? OR HAEMORRHAG? OR EDEMA?))
S30	9308	S1 AND S29
S31	23	S20 AND S30
S32	22	S31 NOT (S27 OR S19 OR S23 OR S12)
S33	4	S32 NOT S6:S10
S34	3	RD (unique items)
S35	377	S20 AND S29
S36	5	S30 AND S14
S37	5	S36 NOT S311
S38	4	S36 NOT S31
S39	58	S25/TI
S40	0	S39 AND S1
S41	4	S39 AND S29
S42	59	(S2 AND S3 AND S4)/TI
S43	4	S42 AND S29
S44	0	S43 NOT S41
S45	1096	PULMONARY DISEASE!
S46	128692	LUNG DISEASE
S47	129779	S45 OR S46
S48	1114	S47 AND S1
S49	1	S48 AND (S14 OR S20)

S50 371282 LUNG DISEASE!
S51 372369 S45 OR S50
S52 239956 VETERINARY MEDICINE!
S53 213 S51 AND S52
S54 0 S53 AND (S14 OR S20)
S55 612112 S51 OR S52
S56 270 S55 AND (S14 OR S20)
S57 56 S56 AND S1
S58 21 S57 NOT S6:S10
S59 21 RD (unique items)
S60 612112 S45 OR S50 OR S52
S61 192 S1 (5N) S2 (5N) S4
S62 18 S61 AND S60
S63 143 S2(5N)S4(5N)S29
S64 8 S63 AND S60
S65 5 S64 NOT S62
? show files
File 5:Biosis Previews(R) 1969-2005/Jul W1
 (c) 2005 BIOSIS
File 34:SciSearch(R) Cited Ref Sci 1990-2005/Jul W1
 (c) 2005 Inst for Sci Info
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 1998 Inst for Sci Info
File 73:EMBASE 1974-2005/Jul 07
 (c) 2005 Elsevier Science B.V.
File 155:MEDLINE(R) 1951-2005/Jul W1
 (c) format only 2005 The Dialog Corp.
File 144:Pascal 1973-2005/Jun W4
 (c) 2005 INIST/CNRS
File 35:Dissertation Abs Online 1861-2005/Jun
 (c) 2005 ProQuest Info&Learning
File 94:JICST-EPlus 1985-2005/May W3
 (c)2005 Japan Science and Tech Corp(JST)
File 10:AGRICOLA 70-2005/Jun
 (c) format only 2005 The Dialog Corporation
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/May
 (c) 2005 The HW Wilson Co.

Set	Items	Description
S1	1427864	HORSE? ? OR RACEHORSE? OR EQUINE? OR THOROUGHBRED? OR STANDARBRED? OR (THOROUGH OR STANDARD?)() (BRED? ?) OR DOG? ? OR - COW? ? OR CAMEL? ? OR GRAYHOUND? OR GREYHOUND? OR (GRAY OR GR-EY) () HOUND?
S2	4188088	LUNG? ? OR PULMON? OR BREATH??? OR RESPIRAT??? OR VENTILAT- ??? OR INHAL????? OR EXHAL????? OR AIRFLOW? OR AIR()FLOW???
S3	1576052	VESTIBUL?(2N)WALL OR NOSTRIL? OR NASAL? OR NOSE? ? OR INCISIVE?()BONE? ? OR RHINAL? OR HEAD? ? OR MUZZLE? OR MAXILLA??? OR PREMAXILLA??? OR BRIDG???
S4	8147589	SUPPORT??? OR AID OR AIDS OR AIDING OR BRACE? ? - OR BRACING OR HOLD???
S5	6822658	DILAT??? OR OPEN??? OR WIDEN??? OR EXPAN???? OR ENLARG??? - OR LARGE?
S6	1161406	OUTSIDE? OR EXTERIOR? OR EXTERNAL?
S7	4808782	PY=2004:2005
S8	7053260	PY=2002:2003
S9	6756751	PY=2000:2001
S10	6910304	PY=1998:1999
S11	3462693	PY=1997
S12	61598	S1(5N)S2
S13	31256	S3(5N)S5
S14	72	S12 AND S13
S15	41	S14 NOT S7:S11
S16	20	RD (unique items)
S17	13696	S3(5N)S4
S18	553	S13 AND S17
S19	8	S18 AND S1
S20	62534	S2 (5N) S4
S21	1	S20 AND S1 AND S13
S22	21605	S3(3N)S5
S23	8	S22(10N)S12
S24	8	S23 NOT S19
S25	4	RD (unique items)
S26	1	FLAIR (5N)S1(5N)S3
S27	64374	S2:S3 (3N) (S4 OR STRIP OR STRIPS)
S28	1103	S27 (10N) (S1 OR ANIMAL? ? OR MAMMAL? ?)
S29	3365	S2:S3(3N) (STRIP OR STRIPS)
S30	117	S29 (10N) S1
S31	64	S30 NOT S7:S11
S32	30	RD (unique items)
S33	61046	S2:S3(3N)S4
S34	259	S33 (10N) S1
S35	185	S34 NOT S7:S11
S36	185	S35 NOT (S31 OR S24)
S37	117	RD (unique items)
S38	163	S33(5N)S1
S39	123	S38 NOT S7:S11
S40	80	RD (unique items)
S41	16	S40 AND S5
S42	80	S40 NOT (S31 OR S24)
? show files		
File	5:Biosis Previews(R) 1969-2005/Jul W1	
	(c) 2005 BIOSIS	
File	34:SciSearch(R) Cited Ref Sci 1990-2005/Jul W1	
	(c) 2005 Inst for Sci Info	
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	
	(c) 1998 Inst for Sci Info	
File	73:EMBASE 1974-2005/Jul 07	
	(c) 2005 Elsevier Science B.V.	
File	155:MEDLINE(R) 1951-2005/Jul W1	

(c) format only 2005 The Dialog Corp.
File 144:Pascal 1973-2005/Jun W4
(c) 2005 INIST/CNRS
File 35:Dissertation Abs Online 1861-2005/Jun
(c) 2005 ProQuest Info&Learning
File 94:JICST-EPlus 1985-2005/May W3
(c)2005 Japan Science and Tech Corp(JST)
File 10:AGRICOLA 70-2005/Jun
(c) format only 2005 The Dialog Corporation
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/May
(c) 2005 The HW Wilson Co.

Set	Items	Description
S1	2	AU=(BLACH, E? OR BLACH E?)
S2	2	AU=(CHIAPETTA, J? OR CHIAPETTA J?)
S3	10	AU='BLOCH E'
S4	2	(S1 OR S3) AND S2
File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)		
(c) 2005 JPO & JAPIO		
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200543		
(c) 2005 Thomson Derwent		

4/5/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013439449 **Image available**

WPI Acc No: 2000-611392/200058

Related WPI Acc No: 1998-583363

XRAM Acc No: C00-182891

XRXPX Acc No: N00-452787

Nasal support device for facilitating air flow through nasal passages of domestic animals, includes adhesive layer for securing device to tissues, support layer and surface layer

Patent Assignee: WINEASE LLC (WINE-N); BLACH E L (BLAC-I); CHIAPETTA J R (CHIA-I)

Inventor: BLACH E L ; CHIAPETTA J R ; COHEN D E

Number of Countries: 091 Number of Patents: 016

Patent Family:

Patent No	Kind	Date	Aplicat No	Kind	Date	Week
WO 200053132	A2	20000914	WO 2000US5943	A	20000307	200058 B
AU 200038702	A	20000928	AU 200038702	A	20000307	200067
US 20010016756	A1	20010823	US 97843741	A	19970421	200151
			US 9818603	A	19980204	
			US 99264464	A	19990308	
EP 1164980	A2	20020102	EP 2000917779	A	20000307	200209
			WO 2000US5943	A	20000307	
US 6352548	B1	20020305	US 99379425	A	19990823	200224
BR 200008830	A	20020716	BR 20008830	A	20000307	200255
			WO 2000US5943	A	20000307	
US 20020134379	A1	20020926	US 99379425	A	19990823	200265
			US 200287668	A	20020301	
JP 2003523782	W	20030812	JP 2000603622	A	20000307	200355
			WO 2000US5943	A	20000307	
NZ 514432	A	20030926	NZ 514432	A	20000307	200366
			WO 2000US5943	A	20000307	
MX 2001009079	A1	20020901	WO 2000US5943	A	20000307	200370
			MX 20019079	A	20010907	
US 6676681	B1	20040113	US 99165578	P	19991115	200405
			US 2000713380	A	20001115	
US 20040133234	A1	20040708	US 97843741	A	19970421	200445
			US 9818603	A	19980204	
			US 99264464	A	19990308	
			US 2003732022	A	20031209	
AU 771804	B2	20040401	AU 200038702	A	20000307	200455
AU 2004201246	A1	20040429	AU 200038702	A	20000307	200457 N
			AU 2004201246	A	20040325	
US 20040193210	A1	20040930	US 97843741	A	19970421	200465
			US 9818603	A	19980204	
			US 99264464	A	19990308	
			US 2004820084	A	20040406	
US 6823864	B2	20041130	US 97843741	A	19970421	200479
			US 9818603	A	19980204	
			US 99264464	A	19990308	

Priority Applications (No Type Date): US 99165578 P 19991115; US 99264464 A 19990308; US 99379425 A 19990823; US 97843741 A 19970421; US 9818603 A 19980204; US 200287668 A 20020301; US 2000713380 A 20001115; US 2003732022 A 20031209; AU 2004201246 A 20040325; US 2004820084 A 20040406

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
WO 200053132 A2 E 52 A61F-005/08

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN

CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
 Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200038702 A Based on patent WO 200053132
 US 20010016756 A1 CIP of application US 97843741
 A61B-017/00 CIP of application US 9818603
 CIP of patent US 5913873
 CIP of patent US 6033422

EP 1164980 A2 E A61F-005/08 Based on patent WO 200053132
 Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

US 6352548 B1 A61M-029/00
 BR 200008830 A A61F-005/08 Based on patent WO 200053132
 US 20020134379 A1 A61M-029/00 Cont of application US 99379425
 Cont of patent US 6352548

JP 2003523782 W 59 A61D-001/00 Based on patent WO 200053132
 NZ 514432 A A61F-005/08 Based on patent WO 200053132
 MX 2001009079 A1 A61D-009/00 Based on patent WO 200053132
 US 6676681 B1 A61M-029/00 Provisional application US 99165578
 US 20040133234 A1 A61M-029/00 CIP of application US 97843741
 CIP of application US 9818603
 Cont of application US 99264464
 CIP of patent US 5913873
 CIP of patent US 6033422

AU 771804 B2 A61F-005/08 Previous Publ. patent AU 200038702
 AU 2004201246 A1 A61F-005/08 Based on patent WO 200053132
 US 20040193210 A1 C09D-011/00 Div ex application AU 200038702
 CIP of application US 97843741
 CIP of application US 9818603
 Cont of application US 99264464
 CIP of patent US 5913873
 CIP of patent US 6033422

US 6823864 B2 A62B-009/00 CIP of application US 97843741
 CIP of application US 9818603
 CIP of patent US 5913873
 CIP of patent US 6033422

Abstract (Basic): WO 200053132 A2

NOVELTY - A nasal support device comprises an adhesive layer for securing the device to the tissues, a support layer, and a surface layer. The surface layer includes a first transverse dimension, and a center longitudinal dimension. It also includes two lateral longitudinal dimensions on opposing sides of the center longitudinal dimension.

DETAILED DESCRIPTION - The nasal support device (NSD) (10) for supporting tissues overlying first and second nasal passages, comprises an adhesive layer (51) for securing the support device to the tissues, a support layer (12), and a surface layer (11). The surface layer is configured to include a first transverse dimension having a first transverse axis. It also includes a center longitudinal dimension having a center longitudinal axis which is orthogonal to and bisects the first transverse axis. It also includes first and second lateral longitudinal dimensions on opposing sides of the center longitudinal dimension which is greater than the first and second lateral longitudinal dimensions. The surface layer is on opposing sides of the first transverse axis being mirror images of one another.

INDEPENDENT CLAIMS are also included for:

(A) a therapeutic device comprising a therapeutic layer, and an adhesive for maintaining the device in the selected location; and

(B) a method for facilitating air flow through the nasal passages of an animal, comprising supporting a caudal apex region of a vestibular wall overlying the nasal passages of the animal.

USE - The invention facilitates air flow through the nasal passages of domestic animals, e.g. dog, cat, horse, camel. It can also be used to treat or prevent respiratory ailments in adult and young animals, e.g. foals, and calves.

ADVANTAGE - The device may be attached to the nose of the animal while performing physical activity. It reduces the severity or effects of respiratory conditions, e.g. laryngeal hemiplegia, chronic obstructive pulmonary disease, or exercise related to pathologies, e.g. myositis, dorsal displacement of the soft palate, and exercise induced pulmonary hemorrhage or bleeding.

DESCRIPTION OF DRAWING(S) - The figure shows a top view of the NSD.

NSD (10)

Surface layer (11)

Support layer (12)

Rostral (21)

Intermediate (22)

Caudal lift members (23)

Engagement extension (29)

pp; 52 DwgNo 4a/42

Title Terms: NASAL; SUPPORT; DEVICE; FACILITATE; AIR; FLOW; THROUGH; NASAL; PASSAGE; DOMESTIC; ANIMAL; ADHESIVE; LAYER; SECURE; DEVICE; TISSUE; SUPPORT; LAYER; SURFACE; LAYER

Derwent Class: D22; F07; P31; P32; P33; P34; P35

International Patent Class (Main): A61B-017/00; A61D-001/00; A61D-009/00; A61M-029/00; A62B-009/00; C09D-011/00

International Patent Class (Additional): A61F-005/08; A61F-005/56; A61F-013/12; A61G-010/00; A61M-015/00; A61M-016/00; A62B-007/00; A62B-007/10; A62B-018/00; A62B-023/02

File Segment: CPI; EngPI

4/5/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012166451 **Image available**

WPI Acc No: 1998-583363/199849

Related WPI Acc No: 2000-611392

XRXPX Acc No: N98-454460

Nasal support device for domestic mammals - includes two side pieces engaging lateral vestibular walls having rostral ends, caudal ends and rostral-poll dimensions

Patent Assignee: WINEASE LLC (WINE-N)

Inventor: BLACH E L ; CHIAPETTA J R

Number of Countries: 026 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9847451	A1	19981029	WO 98US7885	A	19980417	199849	B
AU 9871366	A	19981113	AU 9871366	A	19980417	199913	
US 5913873	A	19990622	US 97843741	A	19970421	199931	
US 6017357	A	20000125	US 97843741	A	19970421	200012	
			US 99250658	A	19990216		
US 6033422	A	20000307	US 97843741	A	19970421	200019	
			US 9818603	A	19980204		
EP 988005	A1	20000329	EP 98918444	A	19980417	200020	
			WO 98US7885	A	19980417		
JP 2000513621	W	20001017	JP 98546219	A	19980417	200056	
			WO 98US7885	A	19980417		

US 6203560	B1	20010320	US 97843741	A	19970421	200118
			US 99250658	A	19990216	
			US 99375816	A	19990817	
NZ 500673	A	20010525	NZ 500673	A	19980417	200132
			WO 98US7885	A	19980417	
MX 9909663	A1	20000801	MX 999663	A	19991021	200137
AU 734857	B	20010621	AU 9871366	A	19980417	200141
US 20040138698	A1	20040715	US 97843741	A	19970421	200447
			US 9818603	A	19980204	
			US 99438676	A	19991112	
			US 2003742409	A	20031219	

Priority Applications (No Type Date): US 9818603 A 19980204; US 97843741 A 19970421; US 99250658 A 19990216; US 99375816 A 19990817; US 99438676 A 19991112; US 2003742409 A 20031219

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9847451		A1 E 35	A61F-005/08	Designated States (National): AU CA CN JP MX NZ Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
AU 9871366	A		A61F-005/08	Based on patent WO 9847451
US 5913873	A		A61F-005/08	Cont of application US 97843741
US 6017357	A		A61F-005/08	Cont of patent US 5913873
US 6033422	A		A61M-029/00	CIP of application US 97843741
				CIP of patent US 5913873
EP 988005	A1 E		A61F-005/08	Based on patent WO 9847451
				Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
JP 2000513621	W	39	A61D-001/00	Based on patent WO 9847451
US 6203560	B1		A61M-029/00	Cont of application US 97843741
				Cont of application US 99250658
				Cont of patent US 5913873
				Cont of patent US 6017357
NZ 500673	A		A61F-005/08	Based on patent WO 9847451
MX 9909663	A1		A61F-005/08	
AU 734857	B		A61F-005/08	Previous Publ. patent AU 9871366
				Based on patent WO 9847451
US 20040138698	A1		A61B-017/00	CIP of application US 97843741
				Cont of application US 9818603
				Cont of application US 99438676
				CIP of patent US 5913873
				Cont of patent US 6033422

Abstract (Basic): WO 9847451 A

The nasal support device 16 comprises a support layer positioned to provide structural support to the first and second lateral vestibular wall. An engaging layer is used for securing the device to the nose of the domestic animal.

First and second side pieces engage the lateral vestibular walls. The first side piece has a rostral end, a caudal end and a first rostral-poll dimension. The second side piece has a rostral end, a caudal end and a second rostral-poll dimension. A mid-line region includes an intersection of the two side pieces. The mid-line region has a rostral end, a caudal end and a mid-line region rostral-poll dimension that is at least as great as a selected one of the first rostral-poll dimension and the second rostral poll dimension.

USE - For supporting the soft tissue structures of the nasal passages of a domestic animal, e.g. the horse, camel, and dog.
ADVANTAGE - Facilitates air flow through the nasal passages of a domestic animal. Can increase, or reduce the decrease of, nasal passage narrowing that can occur during breathing in domestic mammals.

Dwg. 6/13

Title Terms: NASAL; SUPPORT; DEVICE; DOMESTIC; MAMMAL; TWO; SIDE; PIECE; ENGAGE; LATERAL; VESTIBULAR; WALL; END; CAUDAL; END; POLL; DIMENSION

Derwent Class: P14; P31; P32; P34

International Patent Class (Main): A61B-017/00; A61D-001/00; A61F-005/08; A61M-029/00

International Patent Class (Additional): A01K-013/00; A01K-029/00; A61M-015/00

File Segment: EngPI

?

Set	Items	Description
S1	17	AU='BLACH E L':AU='BLACH EL'
S2	13	AU='CHIAPETTA J R':AU='CHIAPETTA JR'
S3	0	S1 AND S2 AND (HORSE? ? OR EQUINE? ? OR EIHP OR EXERCISE() - INDUCE? ? () PULMON? () (HEMORRHAG? OR HAEMORRHAG?))
S4	5	(S1 OR S2) AND (HORSE? ? OR EQUINE? ? OR EIPH OR EXERCISE() - INDUCE? ? () PULMON? () (HEMORRHAG? OR HAEMORRHAG?))
S5	4	RD (unique items)
S6	7	S1 AND S2
S7	7	S6 NOT S5
S8	3	RD (unique items)
? show files		
File	5:Biosis Previews(R)	1969-2005/Jul W1 (c) 2005 BIOSIS
File	34:SciSearch(R)	Cited Ref Sci 1990-2005/Jul W1 (c) 2005 Inst for Sci Info
File	434:SciSearch(R)	Cited Ref Sci 1974-1989/Dec (c) 1998 Inst for Sci Info
File	73:EMBASE	1974-2005/Jul 07 (c) 2005 Elsevier Science B.V.
File	155:MEDLINE(R)	1951-2005/Jul W1 (c) format only 2005 The Dialog Corp.
File	144:Pascal	1973-2005/Jun W4 (c) 2005 INIST/CNRS
File	35:Dissertation Abs Online	1861-2005/Jun (c) 2005 ProQuest Info&Learning
File	94:JICST-EPlus	1985-2005/May W3 (c) 2005 Japan Science and Tech Corp (JST)
File	48:SPORTDiscus	1962-2005/Jan (c) 2005 Sport Information Resource Centre
File	10:AGRICOLA	70-2005/Jun (c) format only 2005 The Dialog Corporation
File	99:Wilson Appl. Sci & Tech Abs	1983-2005/May (c) 2005 The HW Wilson Co.

5/5/1 (Item 1 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
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0006641088 BIOSIS NO.: 198987088979

**CHANGES IN QUALITY OF STALLION SPERMATOZOA DURING CRYOPRESERVATION PLASMA
MEMBRANE INTEGRITY AND MOTION CHARACTERISTICS**

AUTHOR: BLACH E L (Reprint); AMANN R P; BOWEN R A; FRANTZ D

AUTHOR ADDRESS: ANIMAL REPRODUCTION LAB, COLORADO STATE UNIV, FORT COLLINS,
COLO 80523, USA**USA

JOURNAL: Theriogenology 31 (2): p283-298 1989

ISSN: 0093-691X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: Better procedures for freezing and thawing **equine** sperm are needed since variable fertility is obtained when cryopreserved sperm are used. To evaluate current methods of freezing **equine** sperm, we examined spermatozoal quality by means of two new techniques. These measured the integrity of plasma-acrosomal membranes by immunofluorescent analyses of binding of an antibody specific to the acrosome and evaluated eight parameters of spermatozoal motion using a fully automated computerized system. Five ejaculates from each of eight stallions were processed for freezing in egg yolk-lactose extender with 4% glycerol. Spermatozoal quality was assessed at four different points: at less than 15 min after collecting and before processing (Step 1); after centrifugation and just before freezing (Step 2); immediately after thawing less than 3 h after freezing (Step 3); and immediately after thawing 10 to 20 d after freezing (Step 4). Acrosome-specific monoclonal antibody detected differences ($P < 0.05$) among steps and ejaculates within stallions. All parameters of spermatozoal motion, including the percentage of motile sperm, percentage of progressively motile sperm, curvilinear velocity, straight line velocity, linearity, amplitude of lateral head displacement, and radius of the average path for circularly swimming sperm, differed ($P < 0.05$) among steps, and most of these parameters differed among ejaculates within a stallion and among stallions. For Steps 2 and 3, 62 and 37% of the sperm were motile, and 56 and 23% of all motile sperm had a curvilinear velocity of $> 100 \mu\text{m/sec}$. Most damage to sperm occurred as a result of freezing-thawing, whereas centrifugation of sperm caused only minor damage.

DESCRIPTORS: AMPLITUDE LINEARITY MOTILE SPERM PERCENTAGE SPERMATOZOAL
MOTION PARAMETER CURVILINEAR VELOCITY SPERMATOZOAL QUALITY VARIABLE
FERTILITY MONOCLONAL ANTIBODY METHOD

DESCRIPTORS:

MAJOR CONCEPTS: Animal Husbandry--Agriculture; Cell Biology; Membranes--
Cell Biology; Physiology; Reproductive System--Reproduction

BIOSYSTEMATIC NAMES: Equidae--Perissodactyla, Mammalia, Vertebrata,
Chordata, Animalia

COMMON TAXONOMIC TERMS: Animals; Chordates; Mammals; Nonhuman Vertebrates
; Nonhuman Mammals; Perissodactyls; Vertebrates

CONCEPT CODES:

00530 General biology - Information, documentation, retrieval and
computer applications

02506 Cytology - Animal

10054 Biochemistry methods - Proteins, peptides and amino acids

10058 Biochemistry methods - Carbohydrates

10064 Biochemistry studies - Proteins, peptides and amino acids

10068 Biochemistry studies - Carbohydrates

10508 Biophysics - Membrane phenomena

16501 Reproductive system - General and methods
16504 Reproductive system - Physiology and biochemistry
23004 Temperature - Cryobiology
26506 Animal production - Breeds and breeding
34502 Immunology - General and methods

BIOSYSTEMATIC CODES:

86145 Equidae

5/5/2 (Item 2 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
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0006116779 BIOSIS NO.: 198885085670

ULTRASONOGRAPHIC STUDIES ON THE REPRODUCTIVE TRACT OF MARES AFTER PARTURITION EFFECT OF INVOLUTION AND UTERINE FLUID ON PREGNANCY RATES IN MARES WITH NORMAL AND DELAYED FIRST POSTPARTUM OVULATORY CYCLES

AUTHOR: MCKINNON A O (Reprint); SQUIRES E L; HARRISON L A; BLACH E L; SHIDELER R K

AUTHOR ADDRESS: COLL VETERINARY MED AND BIOMED SCI, COLORADO STATE UNIV, FORT COLLINS, CO 80523, USA**USA

JOURNAL: Journal of the American Veterinary Medical Association 192 (3): p 350-353 1988

ISSN: 0003-1488

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: During breeding of mares, ultrasonographic detection of uterine fluid accumulations in the first postpartum ovulatory period was associated with significantly decreased pregnancy rates, when compared with rates in control mares ($P < 0.005$). The previously gravid uterine horn was recognized as the larger horn, when assessed for size by ultrasonography, for a mean of 21 days (range, 15 to 25 days) after parturition. On the basis of similar measurements obtained during 3 ultrasonographic scans (5-day period), uterine involution was determined to be completed in a mean of 23 days (range, 13 to 29 days). Progestin treatment did not affect uterine size, fluid accumulation, or rate of involution after parturition. However, delaying the first postpartum ovulation with 8 days of progestin treatment significantly improved pregnancy rates ($P < 0.05$). More ($P < 0.05$) mares became pregnant (23 of 28, 82%) when ovulation occurred after day 15 in the first postpartum ovulatory period, compared with those mares that ovulated before day 15 (6 of 12, 50%). We concluded that ultrasonographic detection of uterine fluid and postpartum progestin treatment can be used to manipulate breeding strategies and to improve pregnancy rates in mares bred during the first postpartum ovulatory period.

DESCRIPTORS: **HORSE BREEDING**

DESCRIPTORS:

MAJOR CONCEPTS: Animal Husbandry--Agriculture; Biosynchronization; Physiology; Reproductive System--Reproduction

BIOSYSTEMATIC NAMES: Equidae--Perissodactyla, Mammalia, Vertebrata, Chordata, Animalia

COMMON TAXONOMIC TERMS: Animals; Chordates; Mammals; Nonhuman Vertebrates; Nonhuman Mammals; Perissodactyls; Vertebrates

CONCEPT CODES:

06504 Radiation biology - Radiation and isotope techniques

07200 Circadian rhythms and other periodic cycles

10060 Biochemistry studies - General

15010 Blood - Other body fluids

16504 Reproductive system - Physiology and biochemistry
16506 Reproductive system - Pathology
26506 Animal production - Breeds and breeding
BIOSYSTEMATIC CODES:
86145 Equidae

5/5/3 (Item 1 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

08585659 PMID: 3073116
Use of a monoclonal antibody to evaluate integrity of the plasma membrane of stallion sperm.

Blach E L ; Amann R P; Bowen R A; Sawyer H R; Hermenet M J
Animal Reproduction Laboratory, Colorado State University, Fort Collins
80523.

Gamete research (UNITED STATES) Nov 1988, 21 (3) p233-41, ISSN
0148-7280 Journal Code: 7806559

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

Transmission electron microscopy was used to confirm that a monoclonal antibody (F79.3E2; class IgG1 kappa) was specifically localized to an antigen in the acrosomal ground substance of stallion sperm. This antibody was used to develop and validate an indirect immunofluorescent procedure to evaluate integrity of the plasma-acrosomal membranes of stallion sperm. The concept was that primary monoclonal antibody would be "shielded" from its acrosomal antigen by an intact plasma membrane. Conversely, sperm with damaged plasma-acrosomal membranes would exhibit green acrosomal fluorescence when viewed with an epifluorescence microscope. A lipophilic counterstain (red fluorescence) was used to insure that all sperm were visualized. Sperm in fresh-extended or frozen-thawed semen were incubated with hybridoma supernatant containing monoclonal antibody for 30 min at 37 degrees C, then a second antibody (rabbit anti-mouse IgG-FITC) was added for 30 min at 37 degrees C. Unbound antibody was removed by dilution and centrifugation. Sperm were resuspended in phosphate-buffered saline containing Evan's blue as a counterstain. All sperm fluoresced bright red, regardless of the status of cell membranes, except that in cells with damaged plasma-acrosomal membranes, the green fluorescence associated with antibody was overriding for the rostral portion. By counting fluorescent and nonfluorescent "acrosomes", the percentage of sperm with intact plasma-acrosomal membranes was easily determined. Evaluation of five mixtures of undamaged and damaged sperm by this procedure gave a correlation of 0.91 between the percentage of damaged sperm in a mixture and the percentage of sperm with a fluorescent acrosome. Intra- and interassay coefficients of variability were less than 6%.

Tags: Male; Research Support, Non-U.S. Gov't

Descriptors: *Acrosome--pathology--PA; *Spermatozoa--pathology--PA;
Acrosome--immunology--IM; Animals; Antibodies, Monoclonal--diagnostic use
--DU; Cats; Cattle; Cell Membrane--immunology--IM; Cell Membrane
--pathology--PA; Dogs; Fluorescent Antibody Technique; Horses ;
Microscopy, Electron; Rabbits; Rats; Sheep; Species Specificity

CAS Registry No.: 0 (Antibodies, Monoclonal)

Record Date Created: 19890616

Record Date Completed: 19890616

5/5/4 (Item 2 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

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07175175 PMID: 3972699

Vertebral fracture, extensor hypertonia of thoracic limbs, and paralysis of pelvic limbs (Schiff-Sherrington syndrome) in an Arabian foal.

Chiapetta J R ; Baker J C; Feeney D A

Journal of the American Veterinary Medical Association (UNITED STATES)
Feb 15 1985, 186 (4) p387-8, ISSN 0003-1488 Journal Code: 7503067

Publishing Model Print

Document type: Case Reports; Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

An Arabian foal, which was recumbent for 4 days, had signs of extensor rigidity of the thoracic limbs and hypotonic paralysis of the pelvic limbs. Survey radiography revealed a lesion at T15, with radiographic impression of a compression fracture or a hemivertebra. Postmortem examination revealed a fracture at T15. Clinical and pathologic findings in this case were compatible with the Schiff-Sherrington syndrome, which is characterized by thoracic limb extensor hypertonia associated with paraplegia from acute thoracolumbar trauma.

Tags: Male

Descriptors: *Horse Diseases--diagnosis--DI; *Muscle Hypertonia--veterinary--VE; *Paraplegia--veterinary--VE; *Spinal Cord Compression--veterinary--VE; *Thoracic Vertebrae--injuries--IN; Animals; Horses; Muscle Hypertonia--diagnosis--DI; Paraplegia--diagnosis--DI; Spinal Cord Compression--diagnosis--DI; Syndrome--veterinary--VE

Record Date Created: 19850409

Record Date Completed: 19850409

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8/5/1 (Item 1 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0015117006 BIOSIS NO.: 200500024071

Nasal support device for domestic mammals and method

AUTHOR: Blach Edward L (Reprint); Chiapetta James R

JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1288 (5): Nov. 30, 2004 2004

MEDIUM: e-file

PATENT NUMBER: US 6823864 PATENT DATE GRANTED: November 30, 2004 20041130

PATENT CLASSIFICATION: 128-20024 PATENT ASSIGNEE: WinEase LLC, Eagan, MN,
USA PATENT COUNTRY: USA

ISSN: 0098-1133 (ISSN print)

DOCUMENT TYPE: Patent

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The present disclosure provides a device and method for facilitating air flow in the nasal passage of a domestic animal. The nasal support device (NSD) disclosed herein is useful for facilitating air flow during rest, physical exertion, respiratory ailment, etc. The NSD secures to the nose of a domestic animal to support the unsupported lateral vestibular walls of the nasal passages by lifting or stenting.

DESCRIPTORS:

MAJOR CONCEPTS: Animal Care; Equipment Apparatus Devices and
Instrumentation; Methods and Techniques; Respiratory System--
Respiration

BIOSYSTEMATIC NAMES: Animalia--Animalia

ORGANISMS: animal (Animalia)

ORGANISMS: PARTS ETC: nose--respiratory system

COMMON TAXONOMIC TERMS: Animals

METHODS & EQUIPMENT: method for facilitating air flow in nasal passage--
therapeutic and prophylactic techniques; nasal support device--medical
supplies

CONCEPT CODES:

16004 Respiratory system - Physiology and biochemistry

28002 Laboratory animals - General

BIOSYSTEMATIC CODES:

33000 Animalia

8/5/2 (Item 2 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
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0014743780 BIOSIS NO.: 200400113486

Reusable nasal support devices for animals and methods

AUTHOR: Blach Edward L (Reprint); Chiapetta James R

JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1278 (2): Jan. 13, 2004 2004

MEDIUM: e-file

PATENT NUMBER: US 6676681 PATENT DATE GRANTED: January 13, 2004 20040113

PATENT CLASSIFICATION: 606-199 PATENT ASSIGNEE: Winease LLC, Eagan, MN,
USA PATENT COUNTRY: USA

ISSN: 0098-1133 (ISSN print)

DOCUMENT TYPE: Patent

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The present invention is directed to nasal support devices and

methods. In particular, the invention provides reusable nasal support devices and method for animals.

DESCRIPTORS:

MAJOR CONCEPTS: Equipment Apparatus Devices and Instrumentation; Methods and Techniques; Respiratory System--Respiration; Veterinary Medicine--Medical Sciences

BIOSYSTEMATIC NAMES: Animalia--Animalia

ORGANISMS: animal (Animalia)

COMMON TAXONOMIC TERMS: Animals

METHODS & EQUIPMENT: nasal support method--clinical techniques, therapeutic and prophylactic techniques; reusable nasal support device --medical equipment

CONCEPT CODES:

16004 Respiratory system - Physiology and biochemistry

38002 Veterinary science - General and methods

BIOSYSTEMATIC CODES:

33000 Animalia

8/5/3 (Item 3 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

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0013625353 BIOSIS NO.: 200200218864

Nasal support device for animals and method

AUTHOR: Blach Edward L (Reprint); Chiapetta James R ; Cohen Daniel E

AUTHOR ADDRESS: Roswell, NM, USA**USA

JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1256 (1): Mar. 5, 2002 2002

MEDIUM: e-file

PATENT NUMBER: US 6352548 PATENT DATE GRANTED: March 05, 2002 20020305

PATENT CLASSIFICATION: 606-199 PATENT ASSIGNEE: WinEase LLC

PATENT COUNTRY: USA

ISSN: 0098-1133

DOCUMENT TYPE: Patent

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Devices and methods for facilitating air flow in the nasal passages of domestic animals. The devices include support devices for supporting unsupported tissues of the nasal passages which facilitate air flow during rest, physical exertion, respiratory ailment, etc. Components and methods to facilitate application of the support device to the nose of an animal are also disclosed.

DESCRIPTORS:

MAJOR CONCEPTS: Equipment, Apparatus, Devices and Instrumentation;

Respiratory System--Respiration; Veterinary Medicine--Medical Sciences

METHODS & EQUIPMENT: nasal support device--medical equipment

CONCEPT CODES:

16004 Respiratory system - Physiology and biochemistry

38002 Veterinary science - General and methods

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